

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 19603/3355	SERIAL NO. To Be Assigned
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Barany et al.	
(use several sheets if necessary)		FILING DATE Herewith	GROUP ART UNIT To Be Assigned 1639
(PTO-1449)		JCG85 U.S. PTO 09/963698 09/26/01	

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PP	1	5,143,854	9/1/1992	Pirrung et al.			
	2	5,202,231	4/13/1993	Drmanac et al.			
	3	5,258,506	11/2/1993	Urdea et al.			
	4	5,288,468	2/22/1994	Church et al.			
	5	5,371,241	12/6/1994	Brush et al.			
	6	5,424,186	6/13/1995	Fodor et al.			
✓	7	5,278,298	1/11/1994	Chakraborty et al.			

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PP	8	WO 89/10977	16-NOV-89	Europe WIPD			
	9	WO 90/15070	13-DEC-90	Europe			
	10	WO 92/10588	25-JUN-92	Europe			
	11	WO 92/16655	1-OCT-92	PCT ✓			
✓	12	EP 0 601 714 A1	15-JUN-94	Europe			

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PP	13	Day et al., "Detection of Steroid 21-Hydroxylase Alleles Using Gene-Specific PCR and a Multiplexed Ligation Detection Reaction," <u>Genomics</u> , 29:152-162 (1995)
	14	Grossman et al., "High-Density Multiplex Detection of Nucleic Acid Sequences: Oligonucleotide Ligation Assay and Sequence-Coded Separation," <u>Nucleic Acids Research</u> , 22(21):4527-4534(1994)
	15	Jin et al., "Alternating Current Impedance Characterization of the Structure of Alkylsiloxane Self-Assembled Monolayers on Silicon," <u>Langmuir</u> , 10:2662-2671 (1994)
✓	16	Cheng et al., "In Situ Attenuated Total Reflectance Fourier Transform Infrared Spectroscopy of Carboxylate-Bearing, Siloxane-Anchored, Self-Assembled Monolayers: A Study of Carboxylate Reactivity and Acid-Base Properties," <u>Langmuir</u> , 11:1190-1195 (1995)

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PP	17	5,290,925	3/1/1994	Fino			
	18	5,324,633	6/28/1994	Fodor et al.			
	19	5,352,582	10/4/1994	Lichtenwalter et al.			
	20	5,405,783	4/11/1995	Pirring et al.			
	21	5,470,705	11/28/1995	Grossman et al.			
	22	5,494,810	2/27/1996	Barany et al.			
	23	5,525,464	06/11/96	Drmanac et al.			

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PP	24	WO 93/17126	2-SEPT-93	Europe W1PO			
	25	WO 93/20236	14-OCT-93	Europe			
	26	WO 94/17210	4-AUG-94	Europe			
	27	WO 94/17206	4-AUG-94	Europe			
	28	WO 94/11530	26-MAY-94	Europe			

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PP	29	Kim et al., "Polymeric Self-Assembled Monolayers. 2. Synthesis and Characterization of Self-Assembled Polydiacetylene Mono- and Multilayers," <i>J. Am. Chem. Soc.</i> , 117:3963-3967 (1995)
	30	Lauer et al., "Cloning, Nucleotide Sequence, and Engineered Expression of <i>Thermus thermophilus</i> DNA Ligase, a Homolog of <i>Escherichia coli</i> DNA Ligase," <i>Journal of Bacteriology</i> , 173(16):5047-5053 (1991)
	31	Barany et al., "Cloning, Overexpression and Nucleotide Sequence of a Thermostable DNA Ligase-Encoding Gene," <i>Gene</i> , 109:1-11 (1991)
	32	Jou et al., "Deletion Detection in the Dystrophin Gene by Multiplex Gap Ligase Chain Reaction and Immunochromatographic Strip Technology, <i>Human Mutation</i> , 5:86-93 (1995)
	33	Chan et al., "Polymeric Self-Assembled Monolayers. 3. Pattern Transfer by Use of Photolithography, Electrochemical Methods, and an Ultrathin, Self-Assembled Diacetylenic Resist," <i>J. Am. Chem. Soc.</i> , 117:5875-5976 (1995)

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PP	34	5,412,087	05/02/95	McGall et al.			
	35	4,883,750	11/28/89	Whiteley et al.			
	36	4,683,202	07/28/87	Mullis et al.			
	37	5,744,305	04/28/98	Fodor et al.			
	38	5,695,934	12/09/97	Brenner			
	39	5,981,176	11/09/99	Wallace			
✓	40	5,415,839	5/16/95	Zaun et al.			

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PP	41	WO 94/09022	04/28/94	WO WIPO			
	42	WO 90/11372	4/1990	WO			
✓	43	WO 93/25563	12/1993	WO			

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PP	44	Munkholm et al., "Polymer Modification of Fiber Optic Chemical Sensors as a Method of Enhancing Fluorescence Signal for pH Measurement," <u>Anal. Chem.</u> , 58:1427-1430 (1986)
	45	Graham et al., "Gene Probe Assays on a Fibre-Optic Evanescent Wave Biosensor," <u>Biosensors & Bioelectronics</u> , 7:487-493 (1992)
	46	Chetverin et al., "Sequencing of Pools of Nucleic Acids on Oligonucleotide Arrays," <u>BioSystems</u> , 30:215-231 (1993)
	47	Pease et al., "Light-Generated Oligonucleotide Arrays for Rapid DNA Sequence Analysis," <u>Proc. Natl. Acad. Sci. USA</u> , 91:5022-5026 (1994)
✓	48	Beattie et al., "Advances in Genosensor Research," <u>Clin. Chem.</u> , 41(5) 700-706 (1995)
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PP	49	5,834,181	11/10/98	Shuber			
↓	50	5,648,213	7/15/97	Reddy et al.			
↓	51	5,667,974	9/16/97	Brikenmeyer			
↓	52	5,391,480	2/21/95	Davis et al.			

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↓	54	Kuznetsova et al., "DNA Sequencing by Hybridization with Oligonucleotides Immobilized in a Gel," <u>Mol. Biol. (Mosk)</u> (Russia), 28(2):290-299
↓	55	Lysov et al., "Measurement of Distances Between DNA Segments Increases the Efficiency of Sequencing by Hybridization with Oligonucleotide Matrix," <u>Molecular Biology</u> , 28(3):433-436 (1994)
↓	56	Livshits et al., "Dissociation of Duplexes Formed by Hybridization of DNA with Gel-Immobilized Oligonucleotides," <u>Journal of Biomolecular Structure & Dynamics</u> , 11(4):783-812 (1994)
↓	57	Davis et al., "Quantitative Detection of Hepatitis C Virus RNA With a Solid-phase Signal Amplification Method: Definition of Optimal Conditions for Specimen Collection and Clinical Application in Interferon-treated Patients," <u>Hepatology</u> , 19(6):1337-1341 (1994)
↓	58	Urdea, "Synthesis and Characterization of Branched DNA (bDNA) for the Direct and Quantitative Detection of CMV, HBV, HCV, and HIV," <u>Clinical Chemistry</u> , 39(4):725-726 (1993)
✓	59	Reynolds et al., "Analysis of Genetic Markers in Forensic DNA Samples Using the Polymerase Chain Reaction," <u>Anal. Chem.</u> , 63:2-15 (1991))
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PP	60	6,027,889	2/22/00	Barany et al.			

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PP	61	Buyse et al., "Rapid DNA Typing of Class II HLA Antigens Using the Polymerase Chain Reaction and Reverse Dot Blot Hybridization," <u>Tissue Antigens</u> , 41:1-14 (1993)
	62	Gyllensten et al., "PCR-Based HLA Class II Typing," <u>PCR Meth. Appl.</u> , 1:91-98 (1991)
	63	Chamberlain et al., "Deletion Screening of the Duchenne Muscular Dystrophy Locus Via Multiplex DNA Amplification," <u>Nucleic Acids Res.</u> , 16:11141-56 (1988)
	64	Tsui, Mutations and Sequence Variations Detected in the Cystic Fibrosis Transmembrane Conductance Regulator (CFTR)Gene: A Report From the Cystic Fibrosis Genetic Analysis Consortium," <u>Human Mutat.</u> , 1:197-203 (1992)
	65	Hollstein et al., "p53 Mutations in Human Cancers," <u>Science</u> , 253:49-53 (1991)
	66	Saiki, et al., "Enzymatic Amplification of β-Globin Genomic Sequences and Restriction Site Analysis for Diagnosis of Sickle Cell Anemia," <u>Science</u> , 230:1350 (1985)
	67	Wu, et al., "The Ligation Amplification Reaction (LAR) -- Amplification of Specific DNA Sequences Using Sequential Rounds of Template-Dependent Ligation," <u>Genomics</u> , 4:560-69 (1989)

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	70	Barany, "Genetic Disease Detection and DNA Amplification Using Cloned Thermostable Ligase," <u>Proc. Nat'l Acad. Sci. USA</u> , 88:189-93 (1991)
	71	Barany, "The Ligase Chain Reaction in a PCR World," <u>PCR Methods and Applications</u> , 1:5-16 (1991)
	72	Gibbs et al., "Detection of Single DNA Base Differences by Competitive Oligonucleotide Priming," <u>Nucleic Acids Res.</u> , 17:2437-48 (1989)
	73	Chehab, et al., "Detection of Specific DNA Sequences by Fluorescence Amplification: A Color Complementation Assay," <u>Proc. Natl. Acad. Sci. USA</u> , 86:9178-82 (1989)
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PP		75	Nickerson et al., "Automated DNA Diagnostics Using an ELISA-Based Oligonucleotide Ligation Assay," <u>Proc. Natl. Acad. Sci. USA</u> , 87:8923-27 (1990)				
		76	Cronin et al., "Cystic Fibrosis Mutation Detection by Hybridization to Light-Generated DNA Probe Arrays," <u>Human Mutation</u> , 7:244-255 (1996)				
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		78	Wang et al., "Large-Scale Identification, Mapping, and Genotyping of Single-Nucleotide Polymorphisms in the Humane Genome," <u>Science</u> , 280:1077-1082 (1998)				
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		80	Barany, "Ligase Chain Reaction (LCR) - Overview and Applications," <u>PCR Methods and Applications</u> , 3(4):S51-S64 (1994)				
✓		81	Iovannisci et al., "Ligation Amplification and Fluorescence Detection of Mycobacterium Tuberculosis DNA," <u>Mol. Cell. Probes</u> , 7(1):35-43 (1993)				

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<i>PP</i>	82	Telenti et al., "Competitive Polymerase Chain Reaction Using an Internal Standard: Application to the Quantitation of Viral DNA," <u>J. Virol. Meth.</u> , 39(3):259-268 (1992)					
<i> </i>	83	Guo et al., "Direct Fluorescence Analysis of Genetic Polymorphisms by Hybridization with Oligonucleotide Arrays on Glass Supports," <u>Nucl. Acids. Res.</u> , 22(24):5456-5465 (1994)					
<i> </i>	84	Sambrook et al., <u>Molecular Cloning A Laboratory Manual</u> , 2 nd Ed., Cold Spring Laboratory Press (1989)					
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